thynnl in alcohol, thymol in vaseline, noviform, sugar and hydragen peroxide were all tried. Of all the materials employed, balsam of Peru gave the best result; sugar next; 10 per cent. noviform salve without cotton next; and hydrogen peroxide last. Among the material observed, were four cases of umbilical infection. All of them were mild in eharacter and speedily disappeared under applications of alcohol. In reviewing the results of the clinic showed that in the last 5000 children treated from 1912 to 1914, there was no ease of umbilical infection. In prior years, the mortality from this condition was estimated at 0.07 per cent. in 10,000 children.

Rupture of the Uterus During Pregnancy.-MEYER (Arch. mens. d'obstet., August, 1915) reports three cases of rupture of the uterus during pregnuncy. The first was in a woman, aged thirty-five years, who had had nine pregnuncies previously, three terminuting prematurely. About six weeks before term, the patient was suildenly seized with prostration, abdominal pain, the discharge of a little fluid from the vagina and the development of shock. When brought to hospital, the patient was without appreciable pulse, the abdominal condition could not be clearly made out by palpution but the abdomen was immediately opened. There was a large quantity of blood in the peritoneal cavity, the fetus was in Douglass's pouch. The body of the uterns had ruptured from above downward near its left border and at the point of rupture had become inverted. Hysterectomy was practised but the patient succumbed. An examination of the uterus could assign no cause for the necident. The second patient was a multipora who came into labor with inefficient uterine contractions. The abdmnen was greatly enlarged, exceedingly painful on palpation. A physician who was summoned administered morphin and chloral but the hemarrhnge continuing, the patient was brought to hospital as a case of placenta previa. On admission, her clothing was souked with bland and Moneberg's bundage was immediately applied, urresting the hemorrhage. While the patient was being prepared for abdominul section, she died. Antopsy showed a longitudinal rupture in the bady nf the uterns near the right border. Examination of the uterus failed to reveal any histological changes in its substance. His third case (also a umiltipara) who had had no lubor pains but whn, upon going to a toilet, was suddenly tuken with severe ubdominal pain. The patient was pale with a very feeble, regular pulse, the abdomen very painful upon palpation. The urine contained albumin and easts, there was no hemorrhage nor uterine contraction. Morphin was given to relieve pain, but the symptoms continued and the putient gradually grew worse. On opening the abdomen, there bud been considerable hemor-rhage with rupture at the fundus. The child was living but died shortly after birth. The mother made a tedious but complete recovery.

The Causes Which Stimulate the Mammary Secretion During the Puerperal Period.—Zuloaga (Arch. mens. d'obstet., September, 1915) has studied the factors which stimulate the secretion of milk. He describes the case of a patient pregnant about four months threatened with abortion in whom he used a tampon of gauze. The patient hud strong uterine contractions und on removing the packing a cotyledon of the placenta

was adherent to the gauze. Two days following the condition of the patient was satisfactory but on the third day there was a rise of temperature and pulse with considerable secretion of milk. The breasts were so swollen that the inovement of the arms was painful. The secretion of milk lasted nearly three weeks after the abortion. The patient stated that she had been delivered of a child five months before and that the midwife in attendance had delivered the placenta with the hand and that there had been no possibility of conception since that time. Evidently this retained portion of placenta which had been removed with the gauze was the cause for the free secretion of milk.

The writer also reports the ease of a multipara pregnunt for ubout six months, who expelled a fetus of about three months, munimified, with a placenta corresponding in size and development to five manths. The placenta showed a subchoreal hematama. The patient made a good recovery but two days after the expulsion of the dead fetus, the secretion of milk developed in abundance and proceeded for sometime, His third ease was that of a multipara who believed herself pregnant seven months when the active movements of the fetus ceased. Two days later there was a secretion of milk, which persisted for six days. A seven months macerated fetus was expelled accompanied by the placenta and this showed areas of congulation necrosis. These cases seem to indicate that the substances formed in the placenta and transmitted to the circulation furnishes a stimulus which excites mainmary secretion. The writer states that the crisogonous hormone which stimulates the secretion of milk is secreted by the myometral glands. It is not thought that the fetus has any influence in determining mainmary secretion. During pregnancy the internal secretion of the invometral glands goes to the placenta, thence to the fetus, determining eertain crises of development in the newborn to which Bar has called our attention. When the direct connection between the placenta and the uterus is interrupted the secretion of the myometral glands passes into the blood of the mother and stimulates mainmary secretion. Uterine involution is favored by the passage of the erisogonous hormone into the maternal blood. These substances are found in greater or smaller quantity in the fetus, placenta and uterine tissue and this fact explains the results obtained by those who have used these substances in stimulating mammary secretion.

GYNECOLOGY

UNDER THE CHARGE OF

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Radiotherapeusis in American Gynecology.—The application of radiotherapy to various gynecologic conditions had become a well established practice in Europe before the outbreak of the war, the